

<div>FluidWatch® 1-800-CUMMINS™ <div> Engine Oil (Liquid Fuel)</div></div>		<div>KEY ISSUES</div>	<div>Coolant Contamination</div>	<div>Dust Contamination</div>	<div>Soot Contamination</div>	<div><div>Red</div>Warning</div>	<div><div>Orange</div>Caution</div>	<div><div>Yellow</div>Watch</div>	<div><div>Green</div>Normal</div>
			<div>Degraded Oil</div>	<div>Fuel Contamination</div>	<div>Engine Wear</div>				

Customer & Unit Information		Fluid & Filter Information		Sample Information	
Company ID	C002353826	Fluid Brand	VALVOLINE	Sample ID	FW230000011
Company Name	FLUIDWATCH CUSTOMER	Fluid Product	PREMIUM BLUE ONE SOLUTION GEN2	QR Code	AA23-10-0000008
Customer Name	NAME	Fluid Grade	10W-30	Sampled Date	08/30/2022
Phone Number	321001234	Filter Brand	FLEETGUARD	Received Date	02/01/2023
Component ID	TRUCK A1	Filter Product	LF14000NN	Completed Date	02/01/2023
Unit Make	PETERBILT	Sampled Location		Component Make	CUMMINS
Unit Model	389	Tracking Number		Component Model	X15
Unit Year	2020	Sample Remarks		Component Year	2020
Equipment Serial No	00000000			Component Serial No	

Analysis	Recommended Actions
Degraded Oil [WATCH] resulted from Oxidation [WATCH] and Nitration [WATCH]. Degraded Oil can result from aggressive duty cycles, late or missed drain intervals, low oil level, power cylinder hardware damage, use of improper oil, or fuel dilution containing some portion of biodiesel.	Ensure oil is drained completely from the engine at oil change. Check oil change interval to ensure alignment with the owners manual. Continue to monitor oil analysis trends, the recommendation is to resample oil at normal interval.

Oxidation (abs/cm) vs Fluid Distance (mi)	Viscosity @ 100 (cSt) vs Fluid Distance (mi)
<div>● Population ● Sample ● Unit</div>	<div>● Population ● Sample ● Unit</div>

Oil Health												
Sample ID	Sampled Date	Unit Distance (mi)	Fluid Distance (mi)	Nitration (abs/cm)	Oxidation (abs/cm)	Soot (%)	Fuel Dilution (%)	Acid Number (mgKOH/g)	TBN (mgKOH/g)	VIS 40 (cSt)	VIS 100 (cSt)	Water (ppm)
FW230000011	08/30/2022	569437	69000	16.81	40.20	0.63	2.1				11.95	
FW230000010	04/23/2022	500437	64000	15.81	36.24	0.51	1.7				12.24	
FW230000009	12/10/2021	436437	58000	9.04	19.42	0.12	0.8				11.47	
FW230000008	08/17/2021	378437	60000	11.94	19.91	0.00	1.3				11.63	

All Metals Information (ppm)																						
Sample ID	Sampled Date	Fe	Cu	Pb	Cr	Al	K	Na	Ca	Sn	Zn	Mg	P	B	Mo	Si	Mn	Ag	Ba	Bi	In	Ni
FW230000011	08/30/2022	74	8	5	4	8	15	5	1,116	0	786	745	689	20	3	8	1	1	2	0	1	0
FW230000010	04/23/2022	43	5	5	2	5	9	4	1,124	0	812	768	701	22	7	8	1	2	1	0	0	0
FW230000009	12/10/2021	11	1	1	1	1	2	2	1,116	0	786	745	689	89	55	4	0	2	1	0	1	0
FW230000008	08/17/2021	18	2	1	1	4	7	3	1,156	1	797	733	691	47	3	4	0	1	1	0	0	0

