

Machine Id L4800 Component Diesel Engine DIESEL ENGINE OIL SAE 15W40 (--- GAL)

R	EC	IME	ND/	ATIC	ON

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

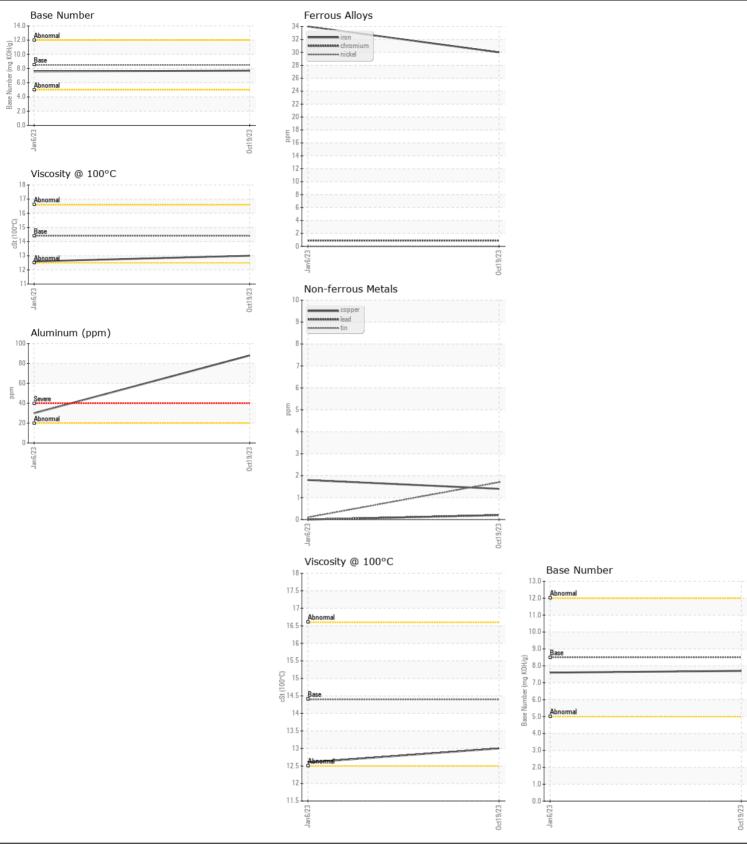
CONTAMINATION

Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0847970	WC0759973	
Sample Date		Client Info		19 Oct 2023	06 Jan 2023	
Machine Age	hrs	Client Info		3539	2383	
Oil Age	hrs	Client Info		1156	0	
Filter Age	hrs	Client Info		1156	0	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
Iron	ppm	ASTM D5185m	>100	30	34	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	88	30	
Lead	ppm	ASTM D5185m	>40	<1	0	
Copper	ppm	ASTM D5185m	>330	1	2	
Tin	ppm	ASTM D5185m	>15	2	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>25	7	6	
Potassium	ppm	ASTM D5185m	>20	207	66	
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
Soot %	%	*ASTM D7844	>3	0.7	0.6	
Nitration	Abs/cm	*ASTM D7624	>20	10.0	9.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	20.8	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Sodium	nom	ASTM D5185m	>158	4	2	
Boron	ppm	ASTM D5185m		4	3	
Barium	ppm	ASTM D5185m	250 10	0	<1	
Molybdenum	ppm	ASTM D5185m	100	63	58	
Manganese	ppm	ASTM D5185m	100	<1	<1	
Magnesium	ppm	ASTM D5185m	450	<1 889	796	
Calcium	ppm	ASTM D5185m	450 3000	1118	1143	
Phosphorus	ppm	ASTM D5185m	1150	940	937	
Zinc	ppm	ASTM D5185m	1350	940 1198	1148	
Sulfur	ppm	ASTM D5185m	4250	2879	3040	
Oxidation	ppm	*ASTM D5165111	4250 >25	2879 18.9		
Base Number (BN)	Abs/.1mm	ASTM D7414 ASTM D2896	>25 8.5	7.7	18.0 7.6	
Visc @ 100°C	mg KOH/g cSt	ASTM D2090 ASTM D445	0.5 14.4		12.6	
	001	AG HVI D443	14.4	13.0	12.0	

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



Apple Valley Waste - Chambersburg Location Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0847970 Recieved : 16 Jan 2024 5436 Sunset Pike Lab Number Diagnosed : 17 Jan 2024 Chambersburg, PA :06061848 : 10833230 Unique Number Diagnostician : Wes Davis US 17202 Test Package : CONST (Additional Tests: TBN) Contact: Service Manager Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: