

OIL ANALYSIS REPORT

Sample Rating Trend



Machine **INTERNATIONAL 8023423** Component

Diesel Engine VALVOLINE 15W40 (--- GAL)

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

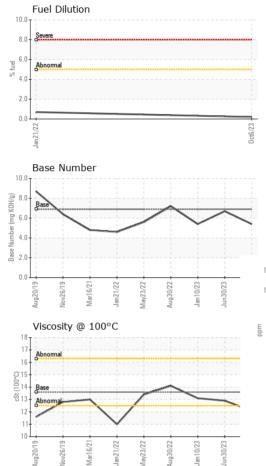
Fluid Condition

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

		Aug2019 Nor	2019 Mar2021 Jan2022	May2022 Aug2022 Jan2023 Jun20	123 Oct2023					
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2				
Sample Number		Client Info		IL0033221	IL05900958	IL05743903				
Sample Date		Client Info		06 Oct 2023	30 Jun 2023	10 Jan 2023				
Machine Age	mls	Client Info		0	266736	210393				
Oil Age	mls	Client Info		245147	0	0				
Oil Changed		Client Info		Changed	N/A	N/A				
Sample Status				NORMAL	NORMAL	NORMAL				
CONTAMINATION method limit/base current history1 history2										
Water		WC Method	>0.2	NEG	NEG	NEG				
Glycol		WC Method		NEG	NEG	NEG				
WEAR METALS		method	limit/base	current	history1	history2				
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Iron	ppm	ASTM D5185m	>100	40	29	28				
Chromium	ppm	ASTM D5185m		1	1	2				
Nickel	ppm	ASTM D5185m	>4	0	0	0				
Titanium	ppm	ASTM D5185m	0	<1	<1	<1				
Silver	ppm	ASTM D5185m		0	0	0				
Aluminum	ppm	ASTM D5185m		7	5					
Lead	ppm	ASTM D5185m	>40	0	2	3				
Copper	ppm	ASTM D5185m		5	<1	<1				
Tin Von odium	ppm	ASTM D5185m	>15	<1	<1	<1 0				
Vanadium	ppm	ASTM D5185m		<1 0	<1 0	0				
Cadmium	ppm	ASTM D5185m		-	-	-				
ADDITIVES		method	limit/base		history1	history2				
Boron	ppm	ASTM D5185m	39	27	130	42				
Barium	ppm	ASTM D5185m	1	0	0	0				
Molybdenum	ppm	ASTM D5185m	49	97	77	70				
Manganese	ppm	ASTM D5185m	1	<1	<1	<1				
Magnesium	ppm	ASTM D5185m	616	708	574	640				
Calcium	ppm	ASTM D5185m	1554	1448	1421	1289				
Phosphorus	ppm	ASTM D5185m	899	843	930	754				
Zinc	ppm	ASTM D5185m	1069	1060	1159	968				
Sulfur	ppm	ASTM D5185m	2624	2478	3474	2804				
CONTAMINANTS		method	limit/base	current	history1	history2				
Silicon	ppm	ASTM D5185m	>25	7	6	7				
Sodium	ppm	ASTM D5185m		4	2	3				
Potassium	ppm	ASTM D5185m	>20	14	5	6				
Fuel	%	ASTM D3524	>5	0.2	<1.0	<1.0				
INFRA-RED		method	limit/base	current	history1	history2				
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.4				
Nitration	Abs/cm	*ASTM D7624	>20	10.9	9.9	10.6				
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.0	23.7	24.0				
FLUID DEGRADA	TION	method	limit/base	current	history1	history2				
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.0	19.3	21.2				
Ondution										



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.6	12.1	12.9	13.1
GRAPHS						

Ferrous Alloys 120 100 80 E 60 40 20 n. Jan21/22 Aug20/19 Jov26/19 Mar16/21 lav23/22 0ct6/23 ua30/73 an10/23 1020173 Non-ferrous Metals 50 lead 40 30 20 10 0 6.03 an71/77 0ct6/23 Marl Viscosity @ 100°C Base Number 18 9.0 17 8.0 (b7.0 6.0 KOH/d) 6.0 16 ()-0014 13 Jaquan 4.0 3.0 ase 2.0 12 1.0 10 0.0 0ct6/23 -Jan21/22 0ct6/23 Nov26/19 Mar16/21 Jan21/22 Jan 10/23 Mar16/21 Mav23/22 Aug20/19 Nov26/19 Mav23/22 Aug 30/27 Aua30/22 Jan 10/23 Aua20/1 TAMPA IDEALEASE Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received : 20 Nov 2023 5951 ORIENT ROAD : IL0033221 Lab Number Diagnosed : 22 Nov 2023 TAMPA, FL :06011908 Unique Number : 10751052 Diagnostician : Wes Davis US 33610-9565 Contact: Russ Cook

 Certificate L2367
 Test Package
 : FLEET (Additional Tests: FuelDilution, PercentFuel)

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
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 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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