

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id

FSP133922 (S/N 1FVHCSCY6EHFA8753)

Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

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 (Al) 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.

Fluid Condition

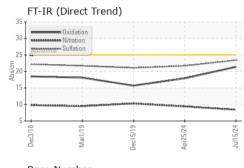
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

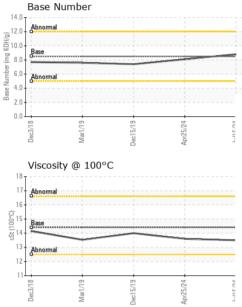
		Dec2018	Mar2019	Dec2019 Apr2024	Jul2024			
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		WC0945797	WC0903100	WC0409152		
Sample Date		Client Info		15 Jul 2024	25 Apr 2024	15 Dec 2019		
Machine Age	mls	Client Info		378385	0	237835		
Oil Age	mls	Client Info		6000	60000	10662		
Oil Changed		Client Info		Changed	Changed	Changed		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2		
Fuel		WC Method	>5	<1.0	<1.0	<1.0		
Water		WC Method	>0.2	NEG	NEG	NEG		
Glycol		WC Method		NEG	NEG	NEG		
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>80	14	22	12		
Chromium	ppm	ASTM D5185m	>5	<1	2	<1		
Nickel	ppm	ASTM D5185m	>2	0	<1	0		
Titanium	ppm	ASTM D5185m		<1	<1	1		
Silver	ppm	ASTM D5185m	>3	0	0	0		
Aluminum	ppm	ASTM D5185m	>30	7	7	3		
Lead	ppm	ASTM D5185m	>30	0	1	1		
Copper	ppm	ASTM D5185m	>150	0	2	1		
Tin	ppm	ASTM D5185m	>5	<1	<1	0		
Antimony	ppm	ASTM D5185m				0		
Vanadium	ppm	ASTM D5185m		0	<1	0		
Cadmium	ppm	ASTM D5185m		0	<1	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	250	73	4	23		
Barium	ppm	ASTM D5185m	10	0	0	0		
Molybdenum	ppm	ASTM D5185m	100	54	66	28		
Manganese	ppm	ASTM D5185m		<1	<1	<1		
Magnesium	ppm	ASTM D5185m	450	509	575	266		
Calcium	ppm	ASTM D5185m	3000	1660	1644	2224		
Phosphorus	ppm	ASTM D5185m	1150	895	1245	997		
Zinc	ppm	ASTM D5185m	1350	1048	1315	1199		
Sulfur	ppm	ASTM D5185m	4250	3248	4086	2805		
CONTAMINANTS	6	method	limit/base		history1	history2		
Silicon	ppm	ASTM D5185m	>20	8	9	7		
Sodium	ppm	ASTM D5185m	>158	4	4	6		
Potassium	ppm	ASTM D5185m	>20	13	9	0		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>3	0.4	0.8	0.5		
Nitration	Abs/cm	*ASTM D7624	>20	8.4	9.4	10.3		
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4	21.7	21.1		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.4	17.9	15.7		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.8	8.1	7.4		
:01:25) Rev: 1				Contact/Location: CRAIG EVANS - FREORL				

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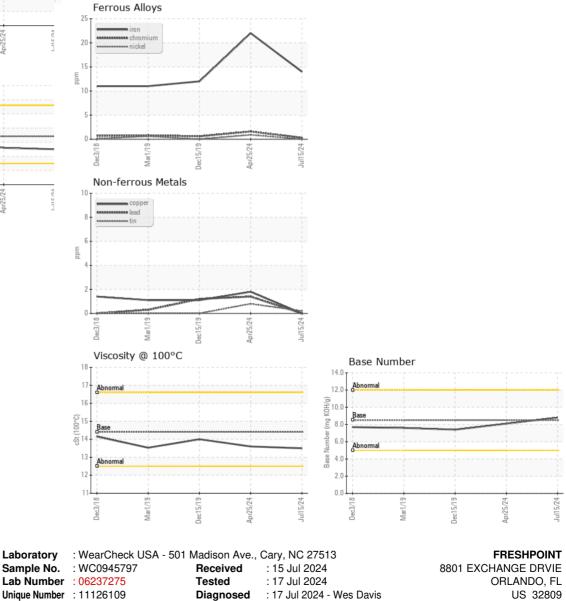


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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 PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.5	13.6	14.0
GRAPHS						





 Certificate L2367
 Test Package
 : FLEET
 (C)

 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)

Contact: CRAIG EVANS evans_craig@sbcglobal.net T: 106:2012) F:

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