

Machine Id 60607515 Component Port Main Engine

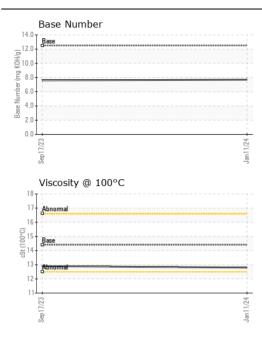
CHEVRON DELO 400 MULTIGRADE 15W40 (--- GAL)

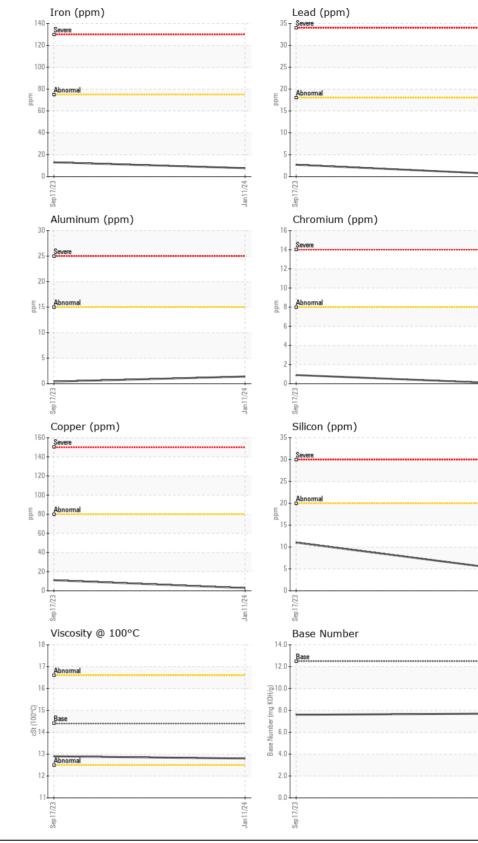
CHEVRON DELO 400 MULTIGRADE 15W40 (GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		KL0005006	KL0008732	
	Sample Date		Client Info		11 Jan 2024	17 Sep 2023	
	Machine Age	hrs	Client Info		754	285	
	Oil Age	hrs	Client Info		285	285	
	Filter Age	hrs	Client Info		285	285	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Not Changd	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>75	8	13	
	Chromium	ppm	ASTM D5185m		<1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		1	<1	
	Lead	ppm	ASTM D5185m		- <1	3	
	Copper	ppm	ASTM D5185m		3	11	
	Tin	ppm	ASTM D5185m		1	3	
	Vanadium	ppm	ASTM D5185m	211	0	<1	
	White Metal	scalar	*Visual	NONE	LIGHT	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		5	11	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		1	3	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.1	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624		9.1	10.0	
	Sulfation	Abs/.1mm	*ASTM D7415		18.5	19.4	
	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	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>75	2	3	
	Boron	ppm	ASTM D5185m	151	72	83	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m	0.4	0	0	
	Molybdenum	ppm	ASTM D5185m	250	0	4	
	Manganese	ppm	ASTM D5185m		<1	2	
	Magnesium	ppm	ASTM D5185m	0	736	738	
	Calcium	ppm	ASTM D5185m		1279	1403	
	Phosphorus	ppm	ASTM D5185m		715	676	
	Zinc	ppm	ASTM D5185m	943	808	793	
	Sulfur	ppm	ASTM D5185m		3209	3451	
	Oxidation	Abs/.1mm	*ASTM D7414		14.6	17.1	
	Base Number (BN)				7.7	7.6	
	Vien (2, 10002)	- 01		444	10.0	10.0	

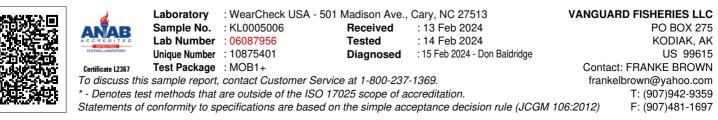
Visc @ 100°C cSt ASTM D445 14.4

12.9

12.8







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Contact/Location: FRANKE BROWN - VANKOD

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