

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

ASRI-BMTRK-VECH-0001 ASRI-BMTRK-VECH-0001

Component

Diesel Engine

CHEVRON DELO 400 MULTIGRADE 15W4

DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

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.

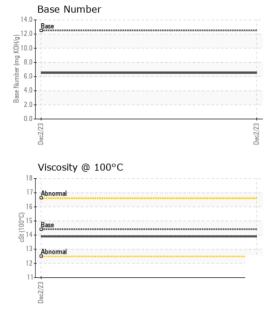
(GAL)				Dec2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HLC0002600		
Sample Date		Client Info		02 Dec 2023		
Machine Age	hrs	Client Info		10615		
Oil Age	hrs	Client Info		491		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	J .	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	17		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>20	3		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	1		
Tin	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	151	70		
Barium	ppm	ASTM D5185m	0.4	0		
Molybdenum	ppm	ASTM D5185m	250	11		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	0	770		
Calcium	ppm	ASTM D5185m	2046	1353		
Phosphorus	ppm	ASTM D5185m	1043	797		
Zinc	ppm	ASTM D5185m	943	874		
Sulfur	ppm	ASTM D5185m		3026		
CONTAMINANTS		method	limit/base	current	history1	history
Silicon	ppm	ASTM D5185m	>25	5		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	7		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	10.8		
Sulfation	Abs/.1mm	*ASTM D7415		21.3		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4		
	100000					

Base Number (BN) mg KOH/g ASTM D2896 12.5

6.51



OIL ANALYSIS REPORT



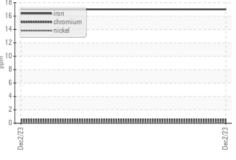
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPERTIES		method	limit/base	current	history1	history2

13.9

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iron			Ξ		Ξ	Ī	_	Ξ	_	١
************** chromium										
pinkal										

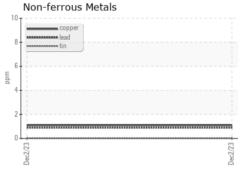
Visc @ 100°C

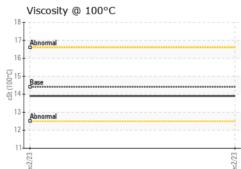
GRAPHS

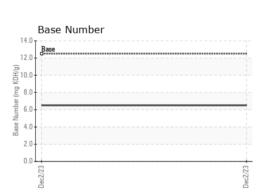


cSt

ASTM D445 14.4











Laboratory Sample No. Lab Number Unique Number : 10779375

: HLC0002600 : 06029584 Test Package : IND 2

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed Diagnostician : Don Baldridge

: 08 Dec 2023 : 12 Dec 2023

HILCORP EXPLORATION ALASKA - MILNE POINT 1000 MILNE POINT RD PRUDOE BAY, AK

US 99734 Contact: Evan Reilly evan.reilly@hilcorp.com T: (907)670-3231

* - 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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