

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

ASRI-RIG-GBX-DUST-0001 ASRI-RIG-GBX-DUST-0001

Component New (Unused) Oil

CHEVRON DELO SYNTHETIC GEAR 75W90 (--- GAL)

DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample.

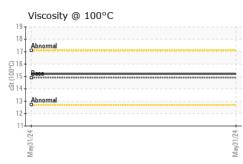
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HLC0002882		
Sample Date		Client Info		31 May 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>5	0		
Chromium	ppm	ASTM D5185m	>5	0		
Nickel	ppm	ASTM D5185m	>5	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>5	<1		
Aluminum	ppm	ASTM D5185m	>5	0		
Lead	ppm	ASTM D5185m	>5	0		
Copper	ppm	ASTM D5185m	>5	0		
Tin	ppm	ASTM D5185m	>5	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		203		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		2		
Calcium	ppm	ASTM D5185m		0		
Phosphorus	ppm	ASTM D5185m		1257		
Zinc	ppm	ASTM D5185m		<1		
Sulfur	ppm	ASTM D5185m		26281		
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0		
Sodium	ppm	ASTM D5185m		1		
Potassium	ppm	ASTM D5185m	>20	2		
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	3569		
Particles >6µm		ASTM D7647	>1300	693		
Particles >14µm		ASTM D7647	>160	17		
Particles >21µm		ASTM D7647	>40	3		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/17/11		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.99		
3:48:14) Boy: 1					opation: Even	

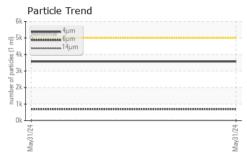
Report Id: BPEMPU [WUSCAR] 06204015 (Generated: 06/14/2024 23:48:14) Rev: 1

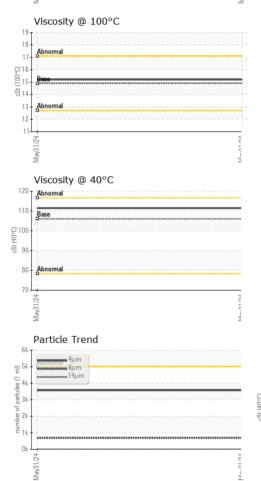
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	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Precipitate	scalar	*Visual	NONE	NONE		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
44	Sand/Dirt	scalar	*Visual	NONE	NONE		
May31/24	Appearance	scalar	*Visual	NORML	NORML		
Ma	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual		NEG		
1	Free Water	scalar	*Visual		NEG		
	FLUID PROPERT	IES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	106	111.4		
	Visc @ 100°C	cSt	ASTM D445	14.9	15.2		
	Viscosity Index (VI)	Scale	ASTM D2270	146	142		
24	SAMPLE IMAGES	8	method	limit/base	current	history1	history2
	Color					no image	no image
	Bottom					no image	no image
A. D.	GRAPHS Ferrous Alloys			491,52 122,88 30,72	0 - Severe		-24 -22
VC LC-TH	Non-ferrous Metal	s		May31/24 16 May31/24 17 17 17			-20 -18 -16 -14 -12 -12 -10
	Viscosity @ 40°C			1/24 May 31/24 May 31/24 Acid Number (mg K0H(g)	٥ لينــــــــــــــــــــــــــــــــــــ	14μ 21μ	-8 38μ 71μ
Laboratory Sample No. Lab Number Unique Number Test Package o discuss this sample report Denotes test methods that	: 11071476 : IND 2 (Additional Tes t, contact Customer Servi	Rece Teste Diagr ts: FT-IF ce at 1-8	ived : 07 ed : 13 nosed : 13 8, KV100, Prt 800-237-1369	7 Jun 2024 8 Jun 2024 Jun 2024 - Jona Count, VI) 9.		PRU Conta evan.reill	SKA - MILNE POIN NE POINT R JDOE BAY, A US 9973 act: Evan Reil y@hilcorp.col (907)670-323

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